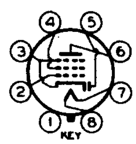
6SF7

DIODE – SUPER-CONTROL AMPLIFIER PENTODE

SINGLE-ENDED METAL TYPE

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:°		
Pentode Unit		
Grid to Plate	0.004 max.	μμf
Input	5.5	μμf
Output	6.0	μμf
Pentode Grid to Diode	0.002 max.	μμf
Pentode Plate to Diode	0.8	μμf
Maximum Overall Length		2-5/8"
Maximum Seated Height		2-1/16"
Maximum Diameter		1-5/16"
Bulb		Metal Shell, MT-8
Base		Small Wafer Octal 8-Pin

Pin 1 - Shell
Pin 2 - Pentode Grid
Pin 3 - Cathode
Pin 4 - Screen



Pin 5 - Diode Plate
Pin 6 - Pentode Plate
Pin 7 - Heater
Pin 8 - Heater

Mounting Position: Any

BOTTOM VIEW (7AZ)

PENTODE UNIT - AMPLIFIER

Plate Voltage	300 max.	volts
Screen Voltage	100 max.	volts
Screen-Supply Voltage	300 max.	volts
Grid Voltage	0 min.	volts
Plate Dissipation	3.5 max.	watts
Screen Dissipation	0.5 max.	watt

Typical Operation and Characteristics - Class A_1 Amplifier:

Plate	100	250	volts
Screen	100	100	volts
Grid	-1	-1	volts
Plate Resistance (Approx.)	0.2	0.7	megohm
Transconductance	1975	2050	μmhos
Grid Bias (Approx.) †	-35	-35	volts
Plate Current	12	12.4	ma.
Screen Current	3.4	3.3	ma.

DIODE UNIT - One

Consideration of this unit is similar to that given under Type 6B8-G with the exception that there is one diode in Type 6SF7. Diode curves shown under Type 6B7 apply to the 6SF7.

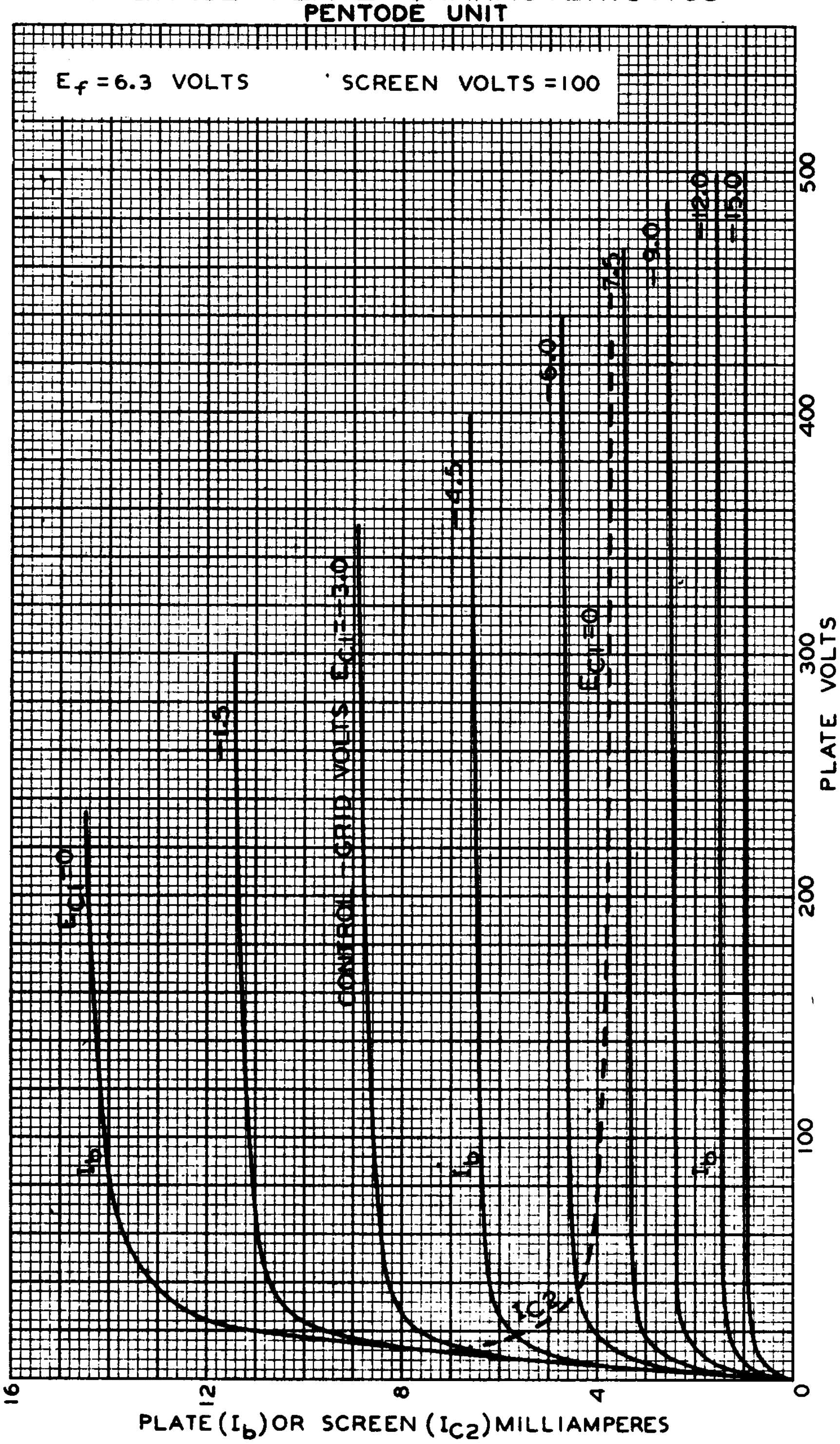
■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
° With shell connected to cathode.
† For transconductance of 10 μmhos.

← Indicates a change.

6SF7

RCA

6SF7
AVERAGE PLATE CHARACTERISTICS
PENTODE UNIT



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